

**FIG. 1 – FOURIER TRANSFORM IR (FTIR) MICHELSON  
INTERFEROMETER (BACKGROUND ART)**

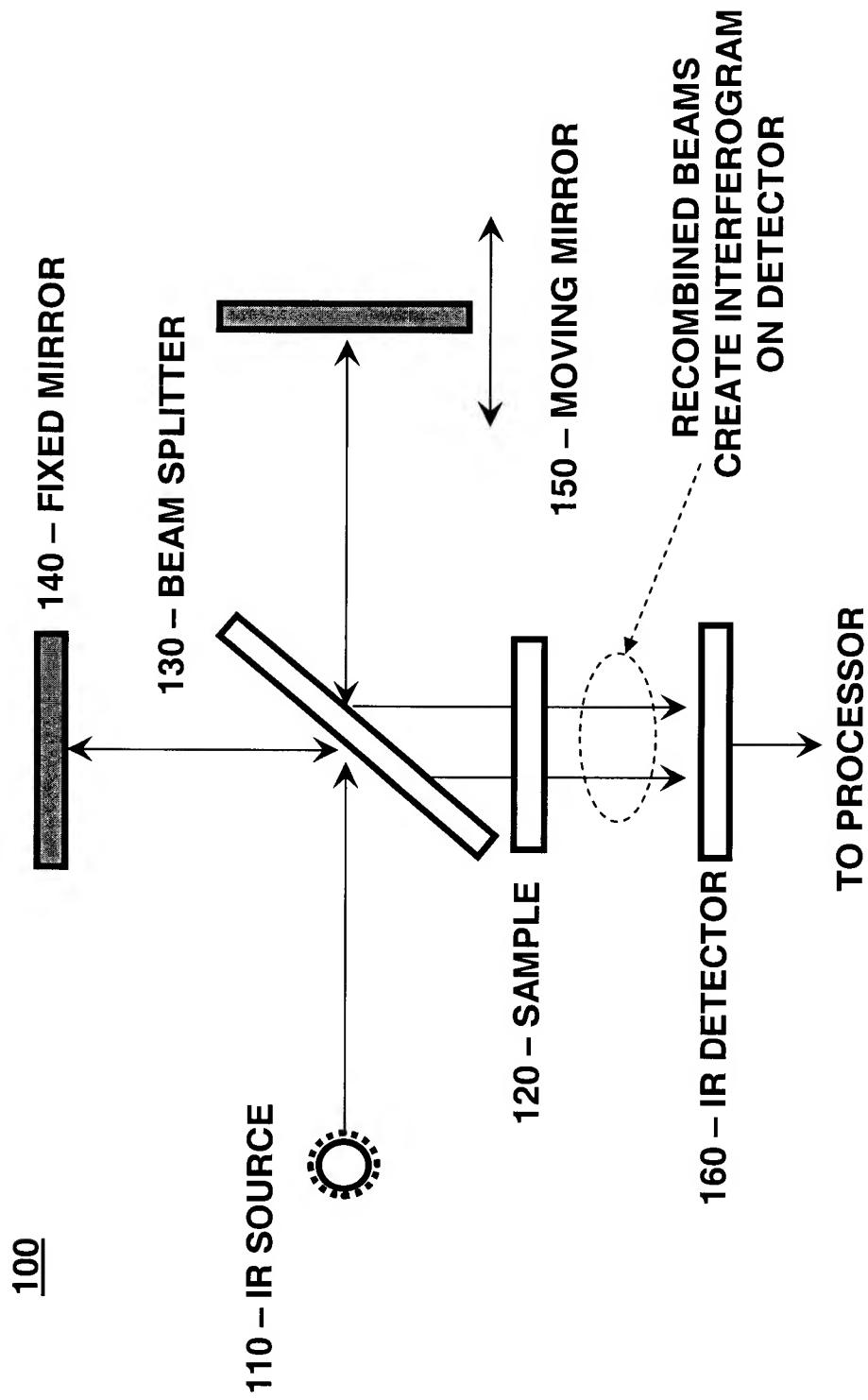
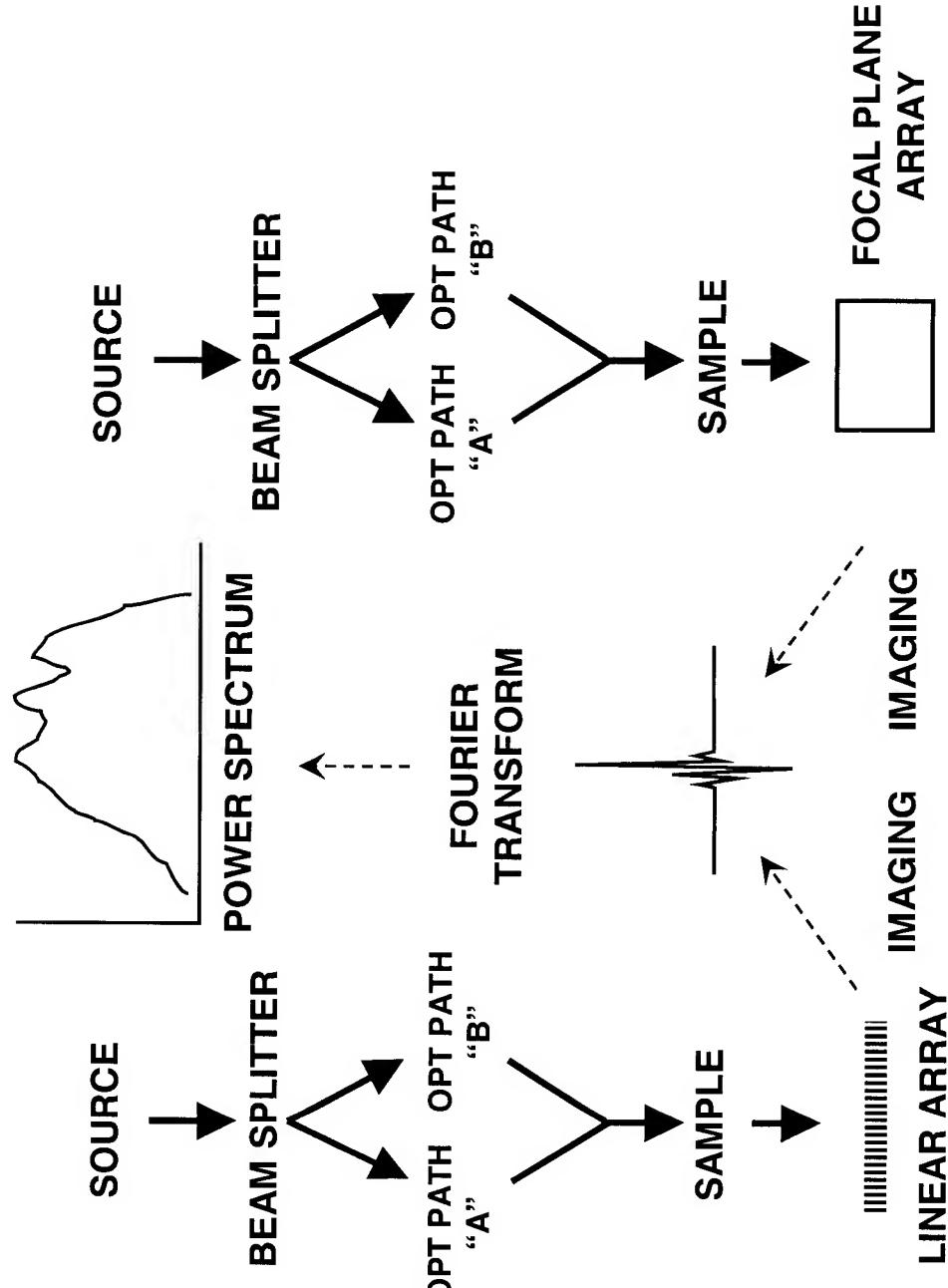
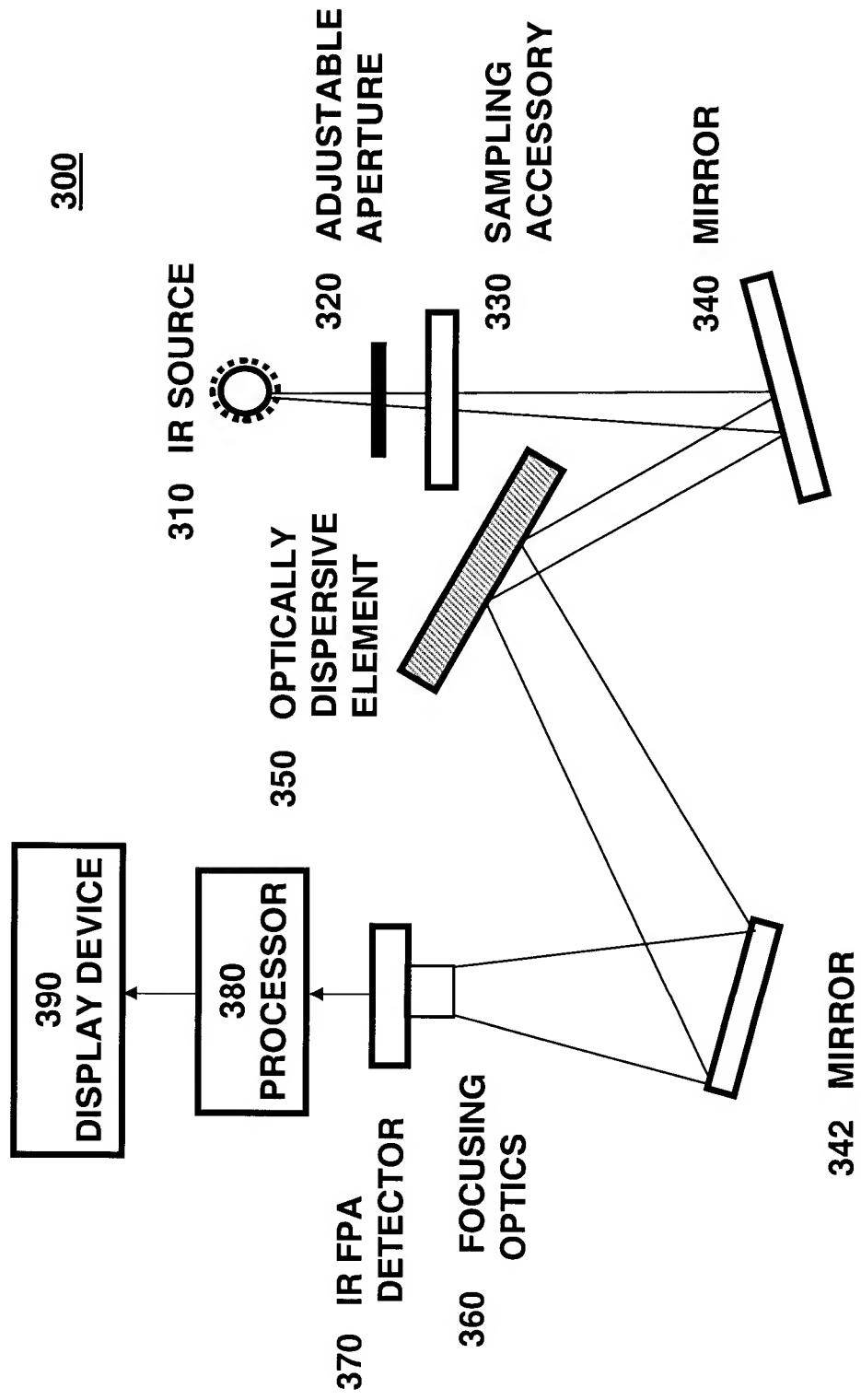


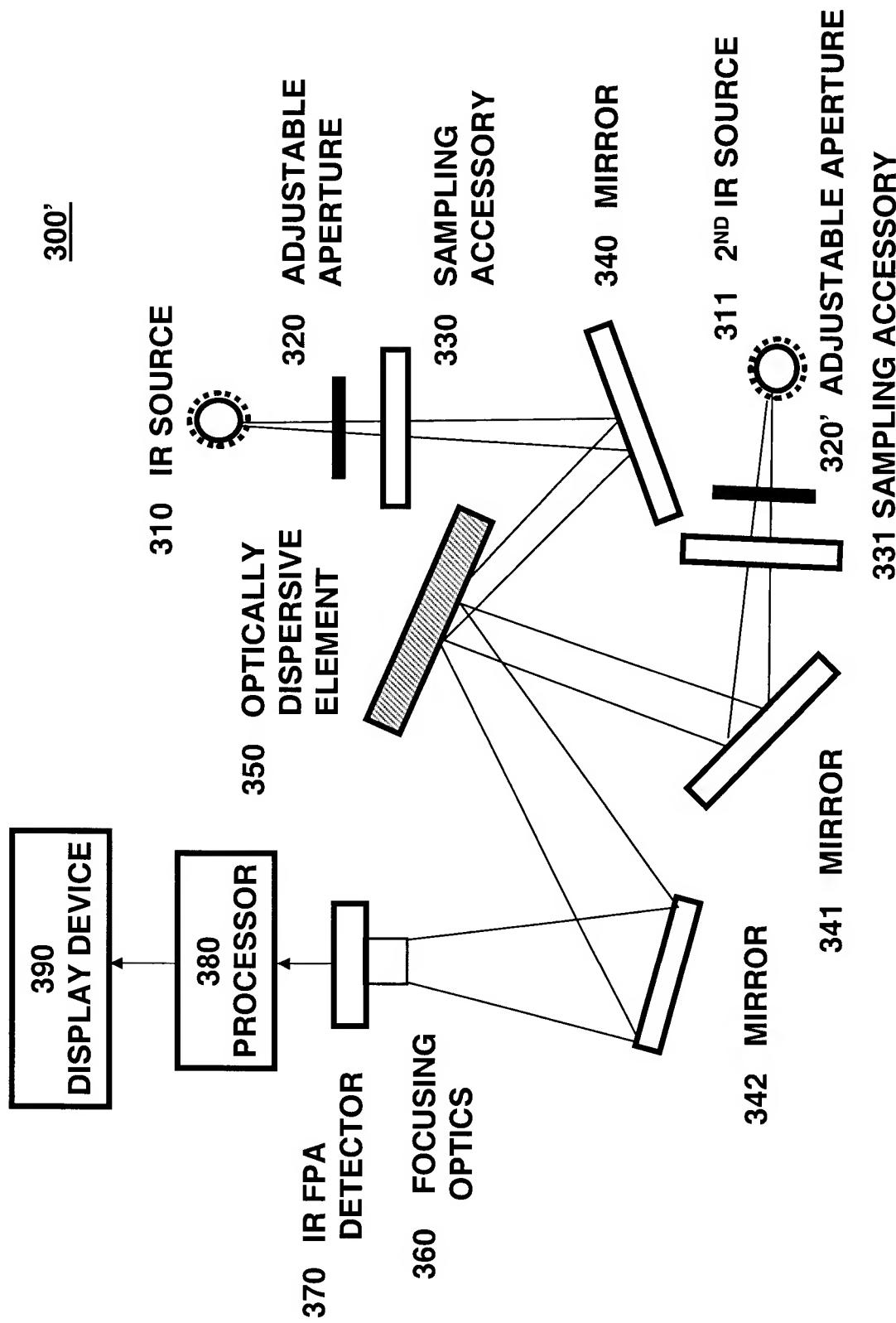
FIG. 2  
INTERFEROMETRIC SPECTROSCOPY USING NO MOVING PARTS  
(BACKGROUND ART)



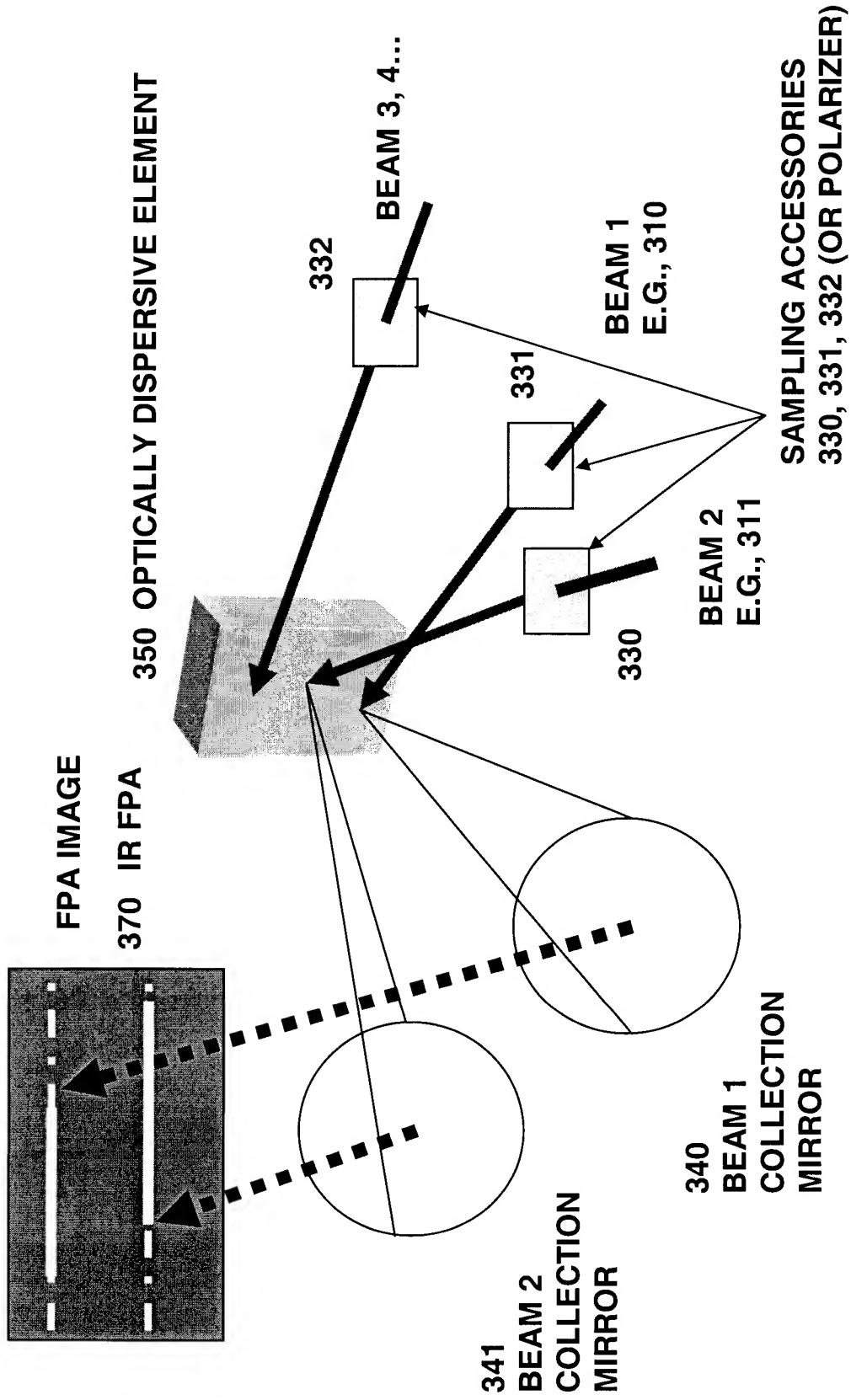
**FIG. 3A**  
**NON-INTERFEROMETRIC IR SPECTROSCOPY USING NO MOVING PARTS**



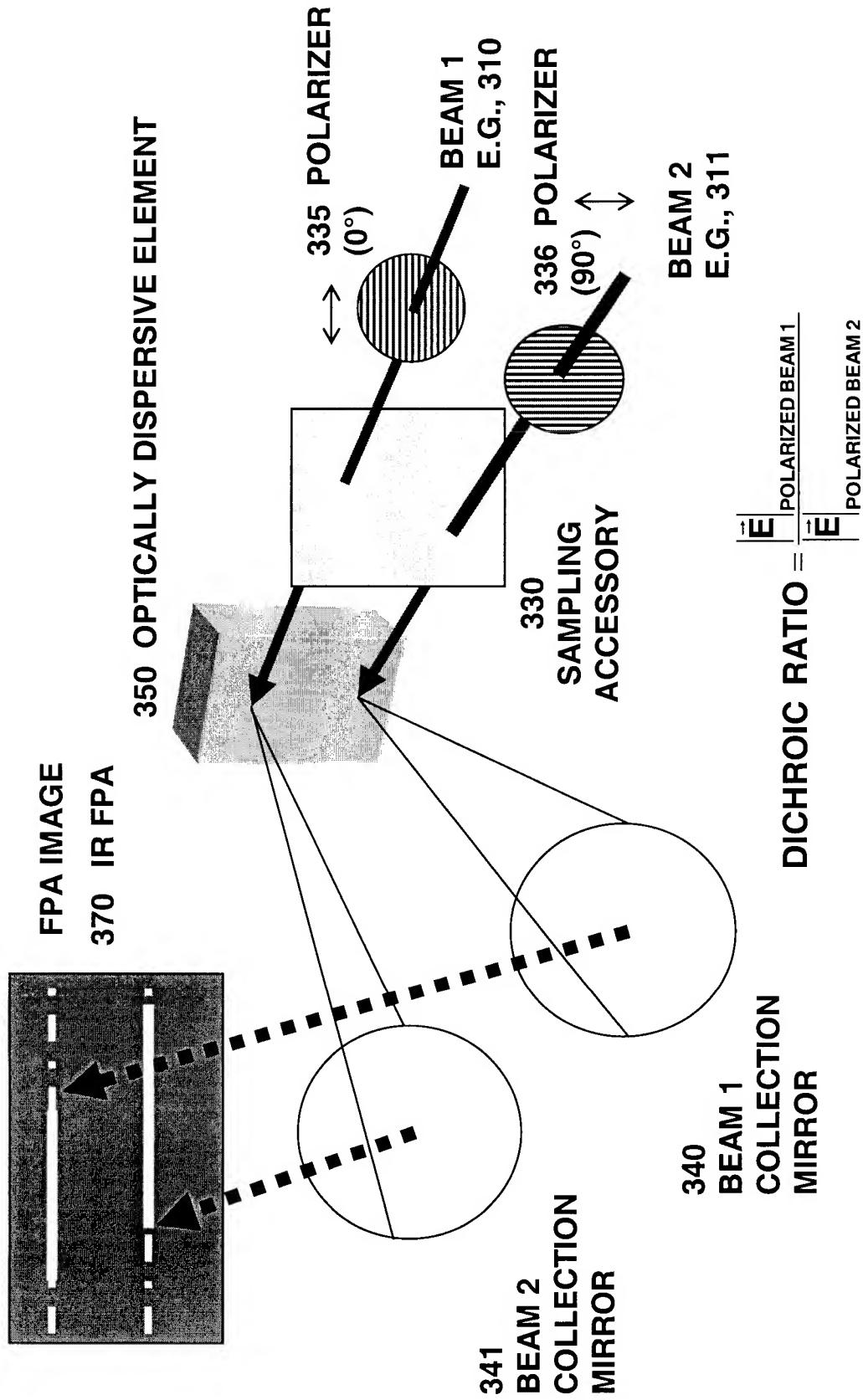
**FIG. 3B**  
**MULTIPLE SOURCES/SAMPLES**



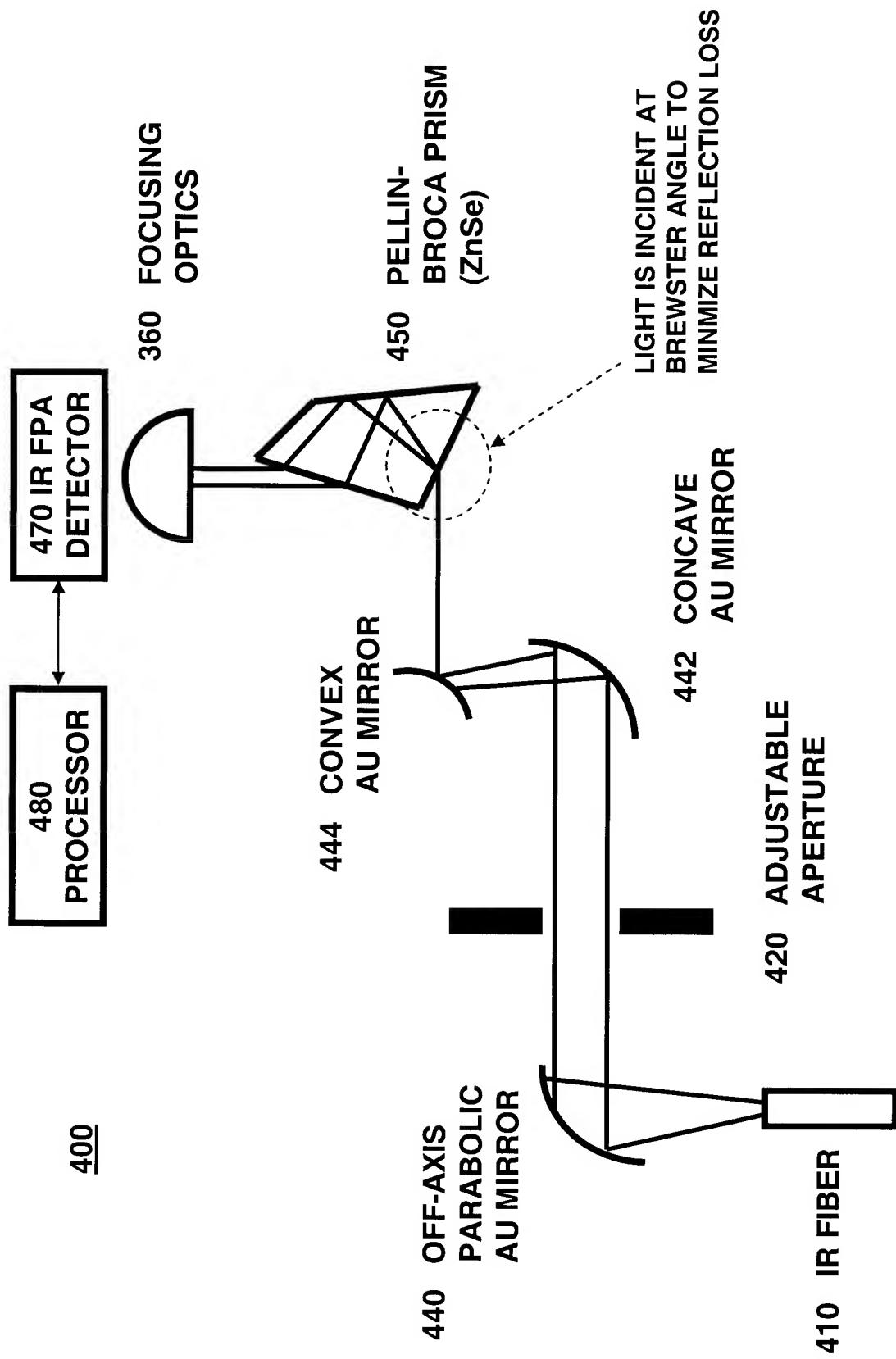
**FIG. 3C**  
**SPATIAL MULTIPLEXING OF MULTIPLE BEAMS**



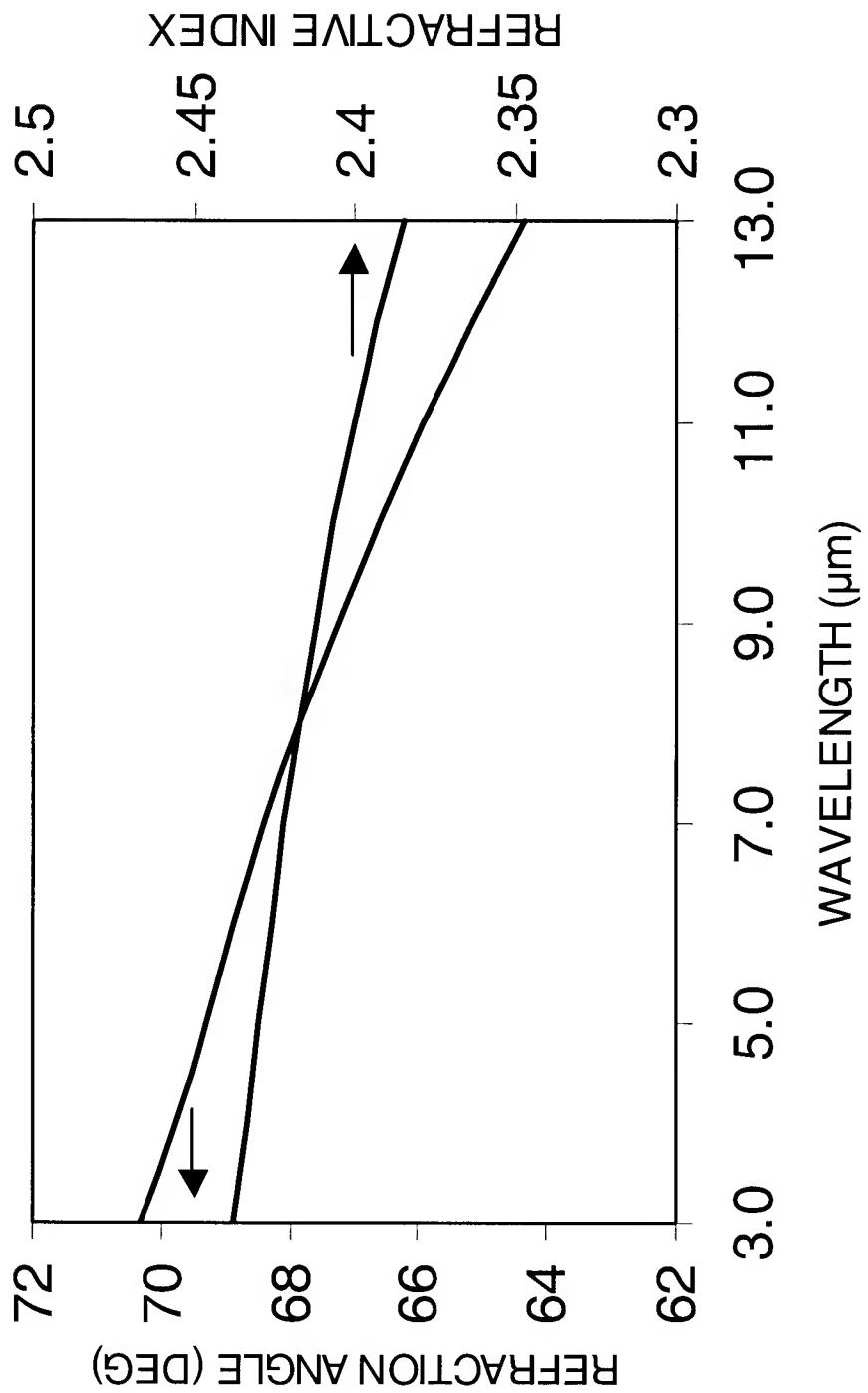
**FIG. 3D**  
**SAMPLING WITH POLARIZED LIGHT**



**FIG. 4 – PELLIN-BROCA PRISM IMPLEMENTATION**

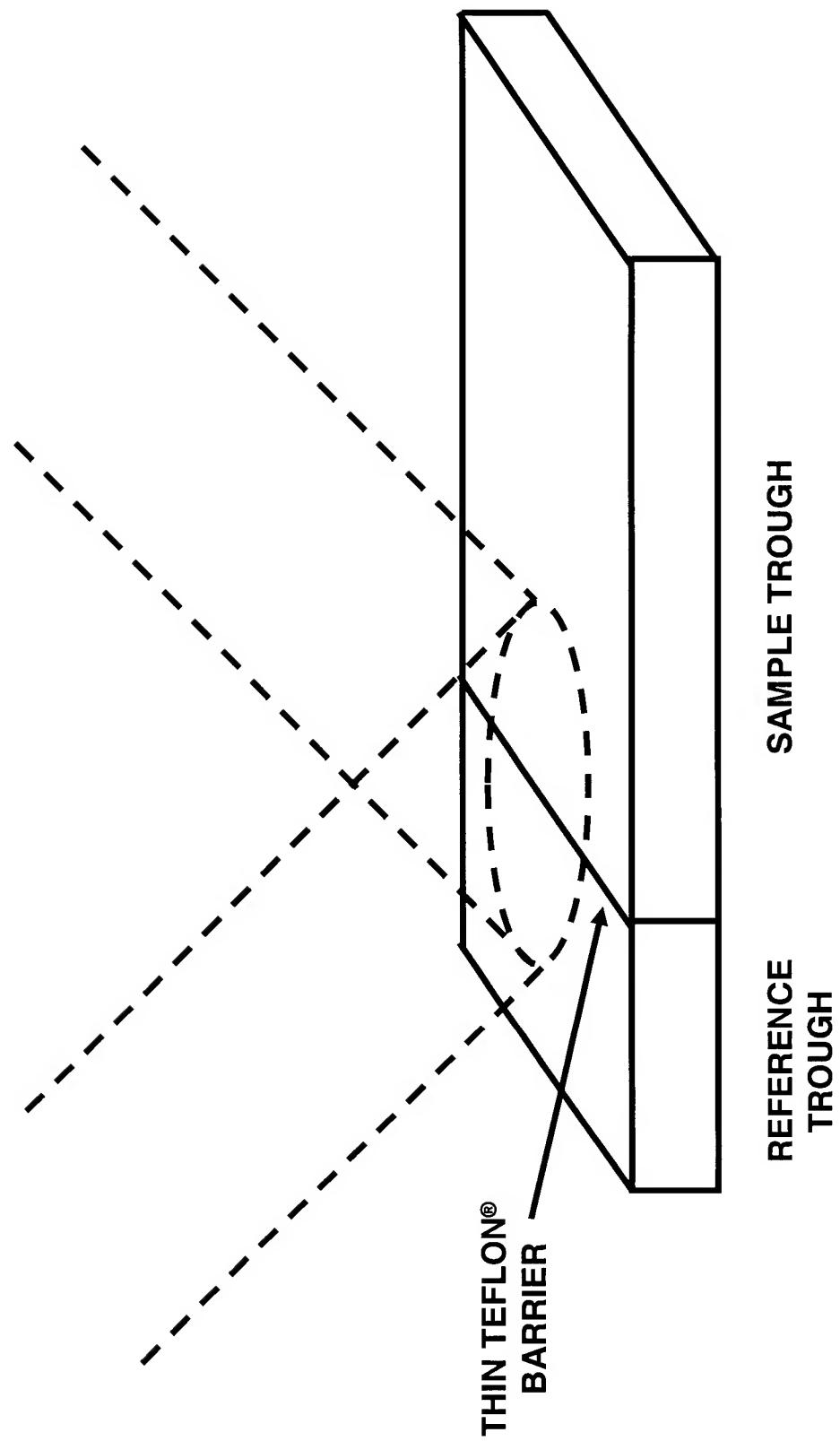


**FIG. 5**  
**ZnSe REFRACTIVE INDEX DISPERSION AND OPTICAL REFRACTION**



PELLIN-BROCA PRISM IMPLEMENTATION

FIG. 6  
CONFIGURATION FOR REAL-TIME BACKGROUND CORRECTION



**FIG. 7**  
**MEASURING MULTIPLE ANGLES OF INCIDENCE**

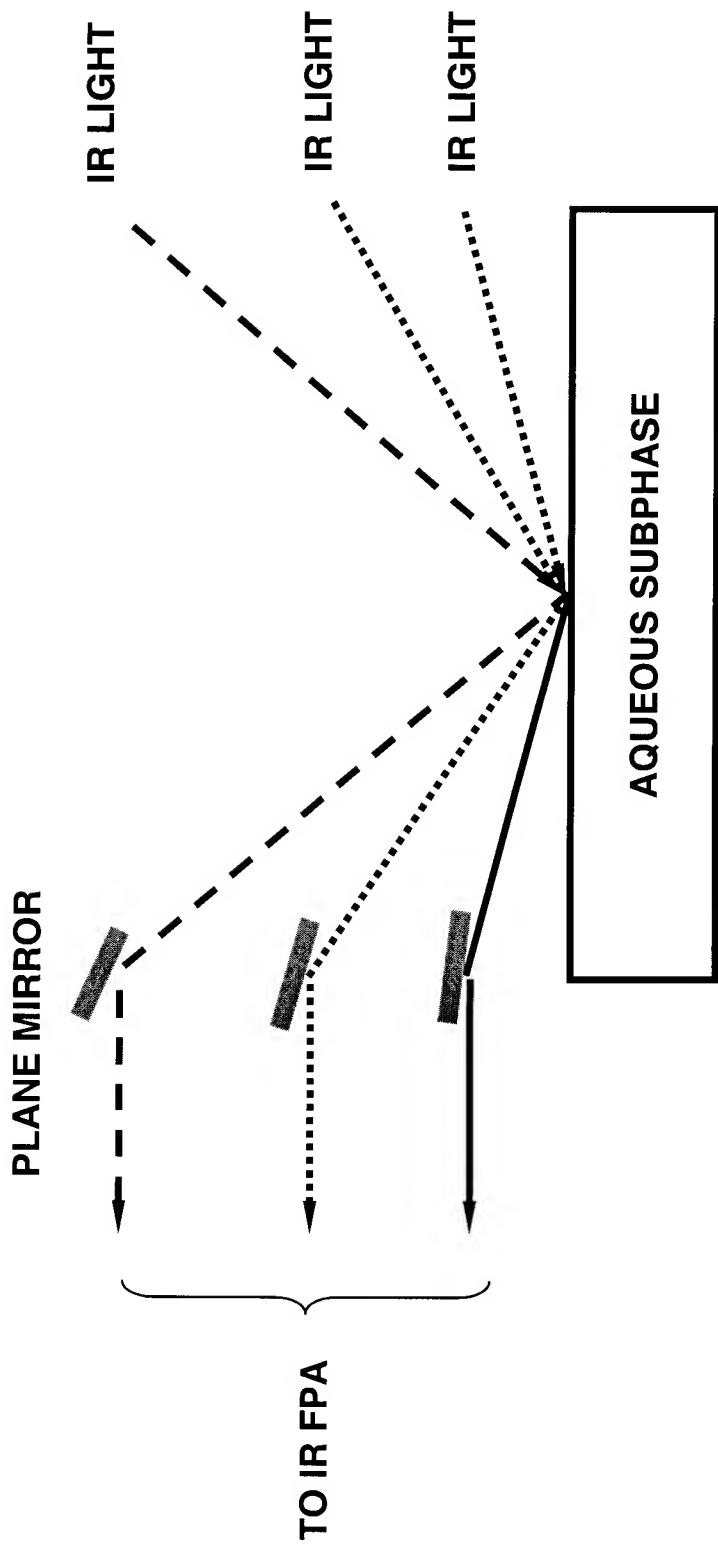


FIG. 8  
STRATIFIED THREE-PHASE SYSTEM

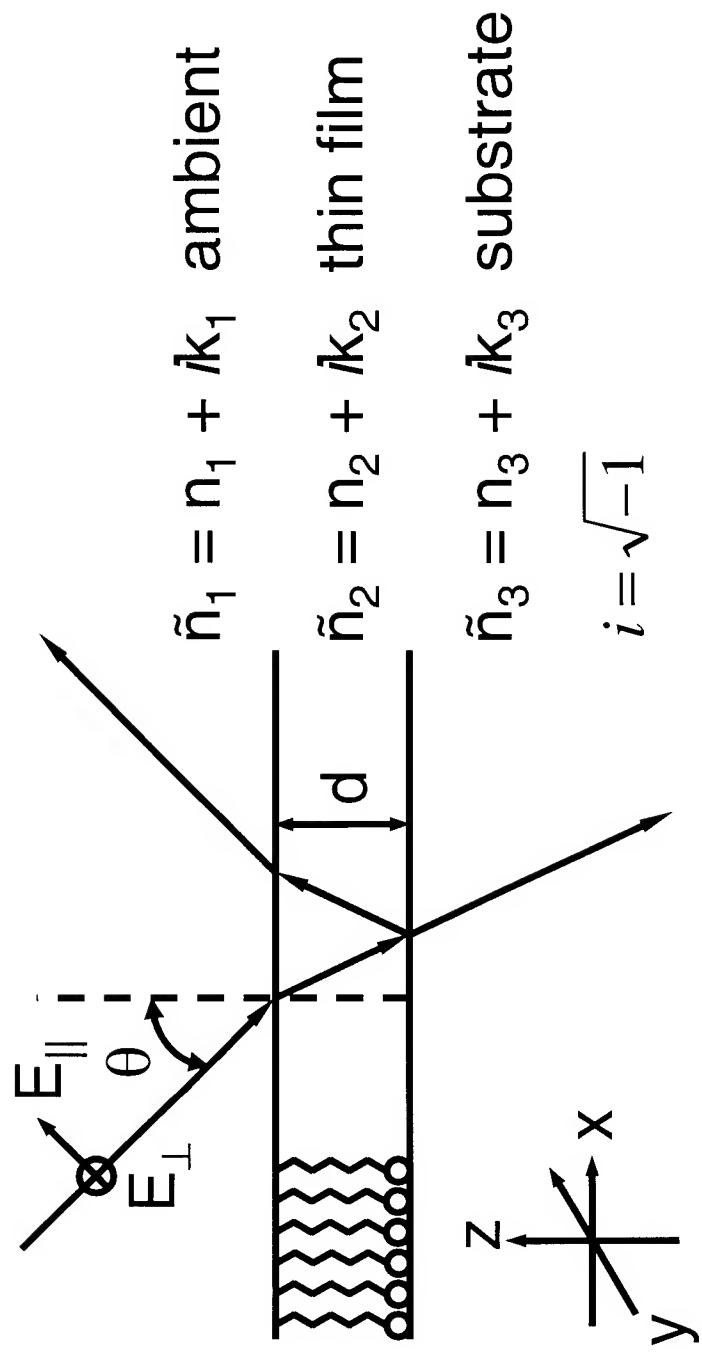


FIG. 9  
REFLECTION/REFRACTION MEASUREMENT FOR DETERMINING  
OPTICAL CONSTANTS OF A THIN FILM

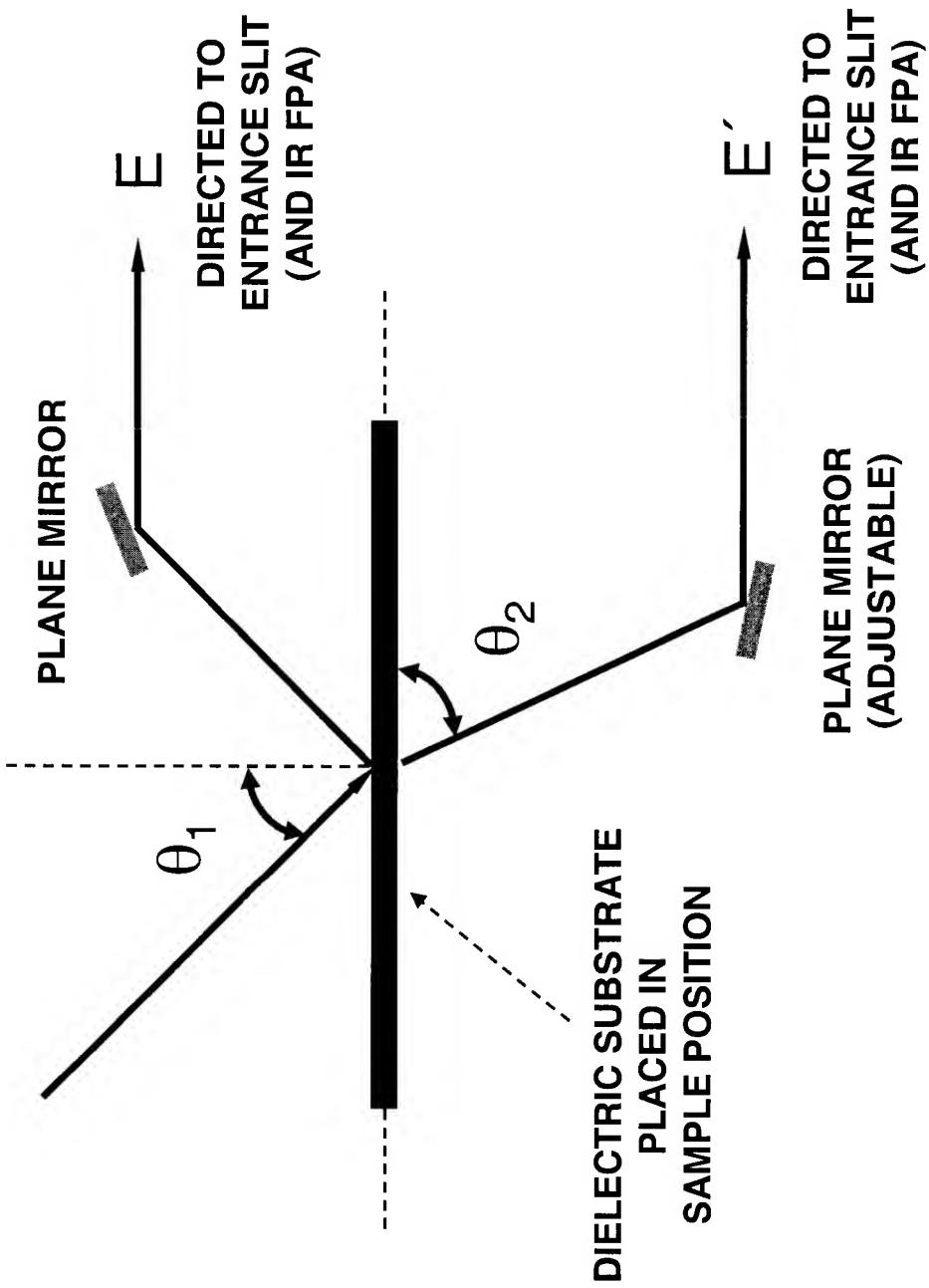


FIG. 10  
POLARIZATION MODULATION INFRARED REFLECTANCE-ABSORBANCE  
SPECTROSCOPY (CONVENTIONAL PM-IRRAS USED WITH FTIR)

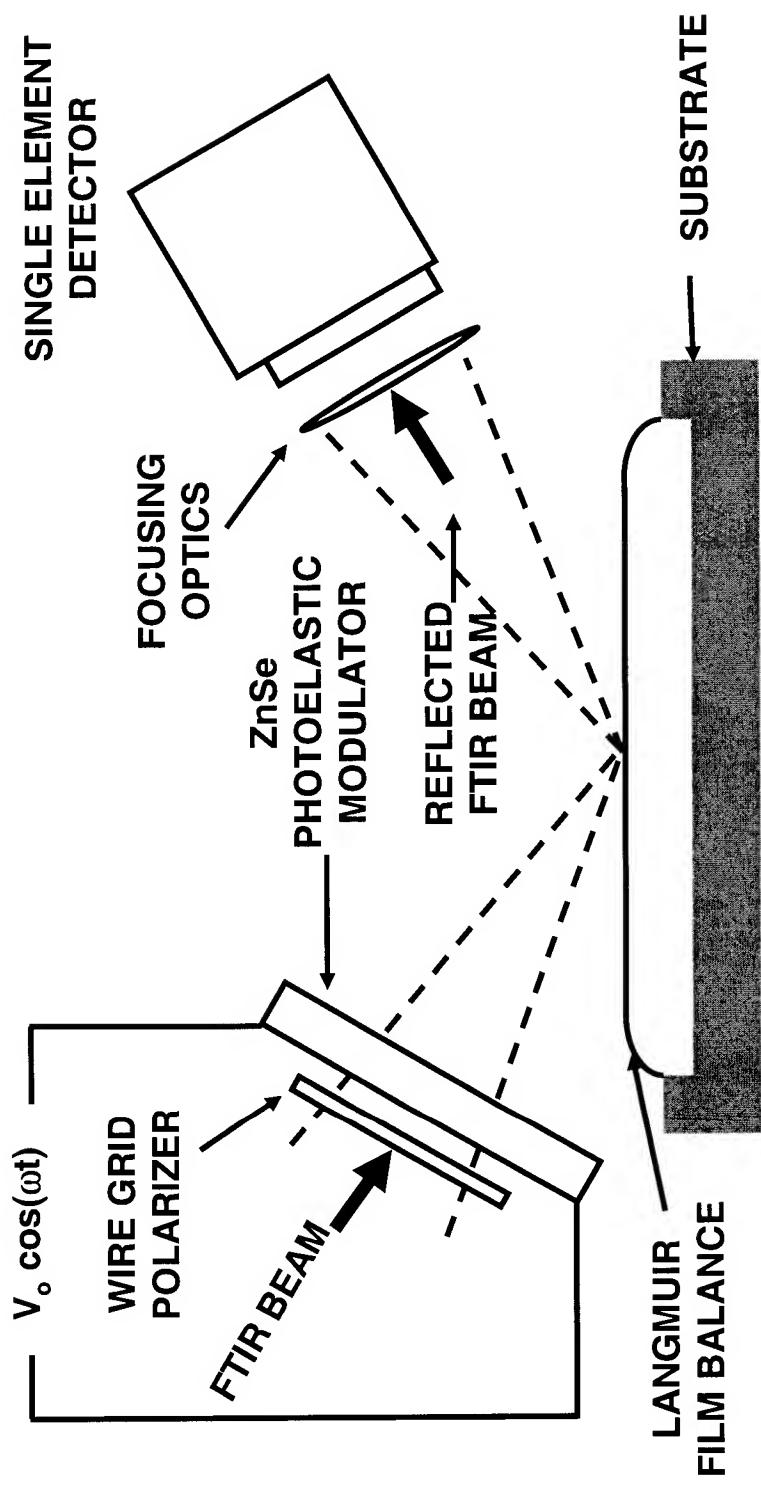


FIG. 11  
PLANAR ARRAY INFRARED REFLECTANCE-ABSORBANCE  
SPECTROSCOPY (PA-IRRAS)

